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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brown et al.

Attorney Docket No. ROYG-1-1001

Serial No.: 09/633,633

Group Art Unit: 2762

Filing Date: August 7, 2000

Examiner: Greg Morse

Title: MOTION CONTROL AND SYSTEM METHOD

**TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT**

TO THE COMMISSIONER OF PATENTS:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§ 1.97-1.98, information related to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.

Because of their bulk, copies of references listed on the attached Form PTO-1449 are not enclosed. The references were originally mailed to the US Patent Office on June 6, 2002, but the transmittal letter inadvertently referenced incorrect attorney docket number ROYG-1-1002 and application serial number 08/944,529, and the copies of the references were apparently routed to that file. We understand that you do not want an additional copy of these voluminous references. Nonetheless, if you would prefer to receive an additional copy, please let us know.

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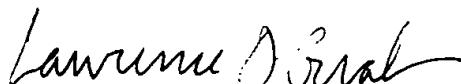
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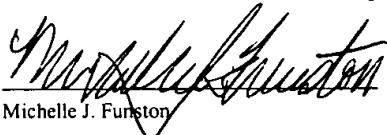
Respectfully submitted,  
BLACK LOWE & GRAHAM PLLC

  
Lawrence D. Graham  
Registration No. 40,001  
Direct Dial: 206.381.3304

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I hereby certify that this communication is being deposited with the United States Postal Service via first class mail under 37 C.F.R. § 1.08 on the date indicated below addressed to: Commissioner for Patents, Attn: Examiner Greg Morse, Art Unit 2762, Washington D.C. 20231.

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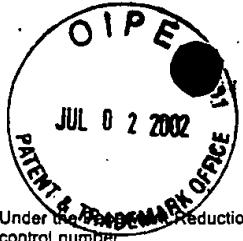
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 7

### Complete if Known

Application Number	09/633,633
Filing Date	August 7, 2000
First Named Inventor	Brown, et al.
Art Unit	2762
Examiner Name	

Attorney Docket Number ROYG-1-1001

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	U29	US- 4,159,417	06/26/1979	Rubincam, David P.	
	U30	US- 4,418,381	11/29/1983	Molusis, et al.	
	U31	US- 4,713,808	12/15/1987	Gaskill, et al.	
	U32	US- 4,767,334	08/30/1988	Throne, et al.	
	U33	US- 4,809,335	02/28/1989	Rumsey	
	U34	US- 4,840,602	01/20/1989	Rose	
	U35	US- 4,846,693	07/11/1989	Baer	
	U36	US- 4,855,725	08/08/1989	Fernandez	
	U37	US- 4,857,030	08/15/1989	Rose	
	U38	US- 4,887,966	12/19/1989	Gellerman	
	U39	US- 4,897,835	01/30/1990	Gaskill, et al.	
	U40	US- 5,120,065	06/09/1992	Driscoll, et al.	
	U41	US- 5,168,441	12/01/1992	Onarheim, et al.	
	U42	US- 5,377,258	12/27/1994	Bro	
	U43	US- 5,392,207	02/21/1995	Wilson, et al.	
	U44	US- 5,402,518	03/28/1995	Lowery	
	U45	US- 5,412,757	05/02/1995	Endo	
	U46	US- 5,450,079	09/12/1995	Dunaway	
	U47	US- 5,465,215	11/07/1995	Strickland, et al.	
	U48	US- 5,493,281	02/20/1996	Owens	

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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	F04	Japanese 59-228473	06/09/1983			
	F05	EP 0 275 826 A1	07/27/1988	CIBA-GEIGY AG		
	F06	EP 0 442 676 A2	08/21/1991	IBM		
	F07	GB 2 244 896 A	12/11/1991	AG (Patents) Ltd.		
	F08	WO 92/11731	07/09/1992	Eastman Kodak		
	F09	EP 0 281 427 B1	08/05/1992	Pierce, et al.		
	F10	EP 508 912 A1	10/14/1992	Info Telecom		
	F11	WO 93/08654	04/29/1993	Forte Communications		
	F12	EP 0 583 908 A2	02/23/1994	IBM		
	F13	WO 95/07504	03/16/1995	Murco Communications		

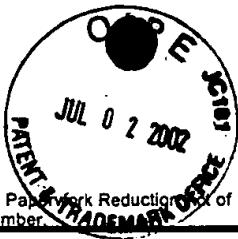
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Application Number</b>	09/633,633
				<b>Filing Date</b>	August 7, 2000
				<b>First Named Inventor</b>	Brown et al.
				<b>Art Unit</b>	2762
				<b>Examiner Name</b>	
<b>Sheet</b>	2	of	7	<b>Attorney Docket Number</b>	ROYG-1-1001

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		Number - Kind Code <sup>2</sup> (if known)			
	U49	US- 5,596,994	01/28/1997	Bro	
	U50	US- 5,600,373	02/04/1997	Chui et al.	
	U51	US- 5,607,336	03/04/1997	Lebensfeld et al.	
	U52	US- 5,617,528	04/01/1997	Stechmann et al.	
	U53	US- 5,636,994	01/10/1997	Tong	
	U54	US- 5,652,866	07/29/1997	Aldred et al.	
	U55	US- 5,655,945	08/12/1997	Jani	
	U56	US- 5,666,161	09/09/1997	Kohiyama et al.	
	U57	US- 5,670,992	09/23/1997	Yasuhabra et al.	
	U58	US- 5,707,289	01/13/1998	Watanabe et al.	
	U59	US- 5,733,131	03/31/1998	Park	
	U60	US- 5,737,523	04/07/1998	Callaghan et al.	
	U61	US- 5,746,602	05/05/1998	Kikinis	
	U62	US- 5,764,155	06/09/1998	Kertesz et al.	
	U63	US- 5,790,178	08/04/1998	Shibata et al.	
	U64	US- 5,907,704	05/25/1999	Gudmundson et al.	
	U65	US- 5,914,876	06/22/1999	Hirai	
	U66	US- 5,800,268	09/01/1998	Molnick	
	U67	US- 5,801,946	09/01/1998	Nissen et al.	
	U68	US- 5,818,537	10/06/1998	Enokida et al.	

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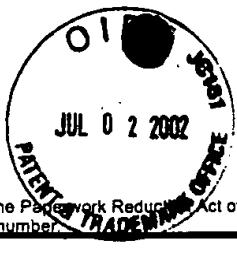
## **FOREIGN PATENT DOCUMENTS**

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	09/633,633
				Filing Date	August 7, 2000
				First Named Inventor	Brown et al.
				Art Unit	2762
				Examiner Name	
Sheet	3	of	7	Attorney Docket Number	ROYG-1-1001

## **U.S. PATENT DOCUMENTS**

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		Number - Kind Code <sup>2</sup> (if known)			
	U69	US- 5,821,987	10/13/1998	Larson	
	U70	US- 5,822,207	10/13/1998	Hazama et al.	
	U71	US- 5,828,575	10/27/1998	Sakai	
	U72	US- 5,846,132	12/08/1998	Junkin	
	U73	US- 5,852,441	12/22/1998	Nakajima et al.	
	U74	US- 5,855,483	01/05/1999	Collins et al.	
	U75	US- 5,867,385	02/02/1999	Brown et al.	
	U76	US- 5,873,765	02/23/1999	Rifkin et al.	
	U77	US- 5,890,963	04/06/1999	Yen	
	U78	US- 5,907,831	05/25/1999	Lotvin et al.	
	U79	US- 5,920,476	07/06/1999	Hennessey et al.	
	U80	US- 5,924,013	07/13/1999	Guido et al.	
	U81	US- 5,960,085	09/28/1999	de la Huerga	
	U82	US- 5,977,951	11/02/1999	Danielli et al.	
	U83	US- 6,078,968	06/20/00	Lo et al.	
	U84	US- 6,101,425	08/08/2000	Govindaraj et al.	
	U85	US- 6,139,177	10/31/2000	Venkatraman et al.	
	U86	US- 6,144,895	11/07/2000	Govindaraj et al.	
	U87	US- 6,209,037	03/27/2001	Brown et al.	
	U88	US- 6,216,173	04/10/2001	Jones et al.	

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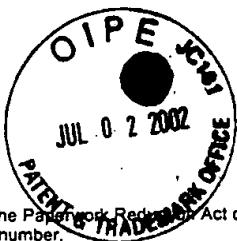
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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet

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<b>Application Number</b>	09/633,633
<b>Filing Date</b>	August 7, 2000
<b>First Named Inventor</b>	Brown, et al.
<b>Group Art Unit</b>	2762
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	ROYG-1-1001

### **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	017	WRIGHT et al.; "Open Architecture Manufacturing: The Impact of Open-System Computers on Self-Sustaining Machinery and Machine Tool Industry"; 7 pages; pp.	
	018	ALTINTAS et al.; "Design and Analysis of a Modular CNC System"; pub. 3/4/90; 12 pages; Elsevier Science Publishers; pp. 305-316.	
	019	ROBERT ANDERSON; "SMART: A Modular Architecture for Robotics and Teleoperation"; pub. 1993; IEEE; 6 pages; pp. 416-421.	
	020	MICROSOFT; "Object Linking and Embedding 2.0 Backgrounder"; pub. 9/93; 15 pages; pp. 1-15.	
	021	MICROSOFT; "Microsoft OLE Today and Tomorrow: Technology Overview"; pub. 12/93; 9 pages; pp. 1-9.	
	022	PRITSCHOW et al.; "Open System Controllers - A Challenge for the Future of the Machine Tool Industry"; pub 1/14/93; CIRP; 4 pages; pp. 449-452.	
	023	WEB 3.0 Product Brochure; Trihedral Engineering Ltd.; pub. 1994; 6 pages.	
	024	CHEN et al.; "Computer Numerical Control: Essentials in Programming and Networking"; pub. 1994; Delmar Publishers, Inc.; 28 pages; Part 5, Chapter 27; pp. 824-848.	
	025	CHU et al.; "Development of a Practical SFC System for CNC Machine Shop"; pub. 1994; 5 pages; 362-367.	<b>RECEIVED</b>
	026	MICROSOFT; "The Microsoft Object Technology Strategy"; pub. 3/94; 33 pages; pp. 1-33.	JUL 09 2002 Technology Center 2100
	027	MICROSOFT; "Open Systems: Technology Leadership and Collaboration"; pub. 3/94; 15 pages; pp. 1-15.	

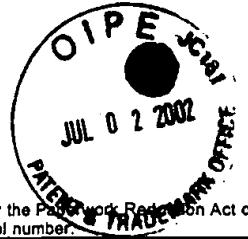
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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5 of 7

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First Named Inventor	Brown, et al.
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### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	028	WILLIAM F. FORD; "What is an Open Architecture Robot Controller?"; pub. 8/16/94; IEEE Control Systems Society; 6 pages; pp. 27-32.	
	029	"Requirements of Open, Modular Architecture Controllers for Applications in the Automotive Industry"; pub. 12/13/94; Version 1.1; 13 pages; pp. 1-13.	
	030	FEDROWITZ; "IRL-Based Expansion of the Commonly Used High-Level Language C for Robot Programming"; pub. 10/95; 5 pages.	
	031	JOHN JACKMAN; "Robotic Control Using Sequential Function Charts"; pub. 1996; SPIE; 9 pages; pp. 120-128.	
	032	MCGRAW et al.; "A Friendly Command, Control, and Information System for Astronomy"; pub. 1996; ASP Conference Series; 12 pages; pp. 356-367.	
	033	PROCTOR et al.; "Validation of Standard Interfaces for Machine Control"; pub. 1996; 6 pages; pp. 659-664.	
	034	SPERLING et al.; "Enabling Open Control Systems - An Introduction to the OSACA System Platform"; pub. 5/96; 8 pages; pp. 1-8.	
	035	"NEMI Low Cost Controller Project"; pub. 12/96; NEMI; 392 pages; pp. 1-392.	
	036	"Technologies Enabling Agile Manufacturing (TEAM) Intelligent Closed Loop Processing"; pub. 1/11/96; 30 pages; pp. 1-30.	
	037	"Open, Modular Architecture Controls at GM Powertrain - Technology and Implementation"; pub. 5/14/96; Version 1.0; GM Powertrain Group Manufacturing Engineering Controls Council; 39 pages; pp. 1-39.	
	038	MARCOS et al.; "A New Solution for Integrating Control Devices Involved in Computer Integrated Manufacturing"; pub. 9/2/96; IEE; 6 pages; pp. 485-490.	

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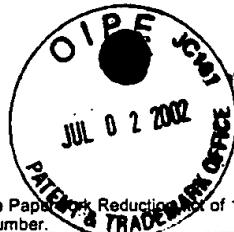
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Sheet

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	039	PROCTOR et al.; "Open-Architecture Controllers"; pub. 6/97; IEEE; 5 pages; pp. 60-64.	
	040	SZABO et al.; "Validation Results of Specifications for Motion Control Interoperability"; pub. 9/97; 11 pages; pp. 166-176.	
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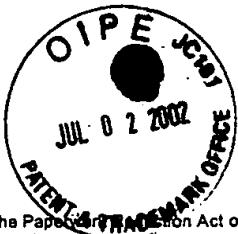
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Application Number	09/633,633
Filing Date	August 7, 2000
First Named Inventor	Brown, et al.
Group Art Unit	2762
Examiner Name	

Attorney Docket Number

ROYG-1-1001

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	050	EMILIO MORALES; "GENERIS: The EC-JRC Generalised Software Control System for Industrial Robots"; pub. 1998; University Press; Volume 26; 7 pages; pp. 26-33.	
	051	MIZUKAWA et al.; "De-Facto Standard API for Open and Networked Industrial Robots"; pub. 10/99; 8 pages; pp. 455-462.	
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